

HZT33

Monolithic IC Zener Diode for Temperature Compensation

REJ03G1220-0500
(Previous: ADE-208-135D)
Rev.5.00
Jun 23, 2005

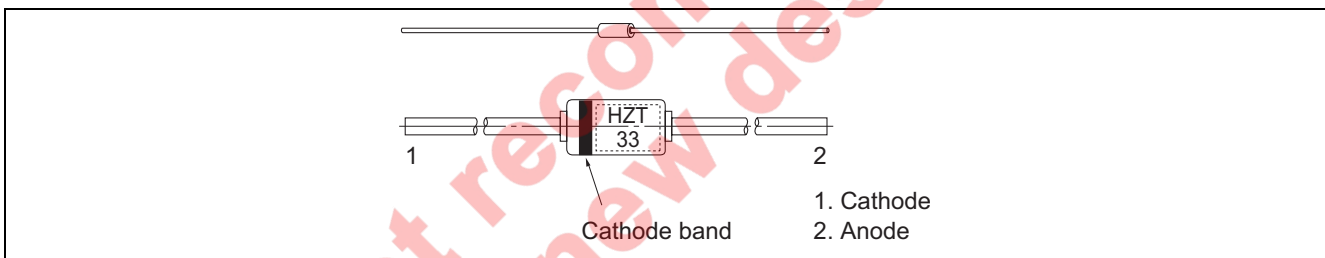
Features

- Lower temperature coefficient of the reference voltage.
- Lower dynamic resistance.
- High reliability with glass seal.

Ordering Information

Type No.	Cathode band	Mark	Package Name	Package Code (Previous Code)
HZT33	Navy Blue	HZT33	DO-35	GRZZ0002ZB-A (DO-35)

Pin Arrangement



Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Value	Unit
Power dissipation	Pd *	200	mW
Operation temperature	Topr	-20 to +75	°C
Storage temperature	Tstg	-40 to +175	°C

Note: Value at Ta = 75°C.

Electrical Characteristics

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Zener Voltage	V _Z	31.0	—	35.0	V	I _Z = 5 mA
Dynamic resistance	r _d	—	—	25.0	Ω	I _Z = 5 mA, f = 1 KHz
Temperature coefficient	γ _Z	—	1.0 * ¹	—	mV/°C	* ² I _Z = 5 mA Ta = -20 to +25 to +75°C

Notes: 1. Type Value of γ_Z : 1.0 mV/°C2. Definition of γ_Z

γ_Z based on Ta = + 25°C and the temperature coefficient with each temperature.
(Range of operation temperature)

Not recommended
for new design

Main Characteristic

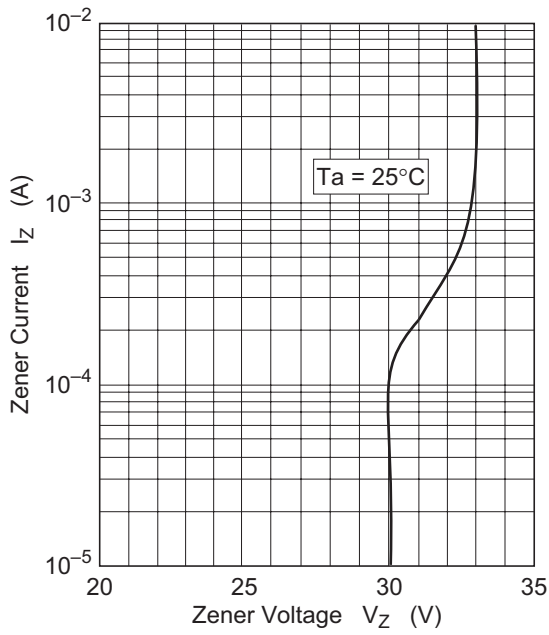


Fig.1 Zener current vs. Zener voltage

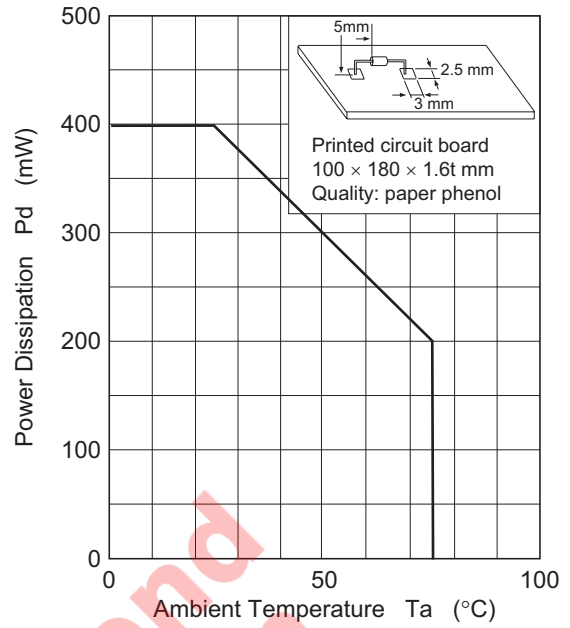
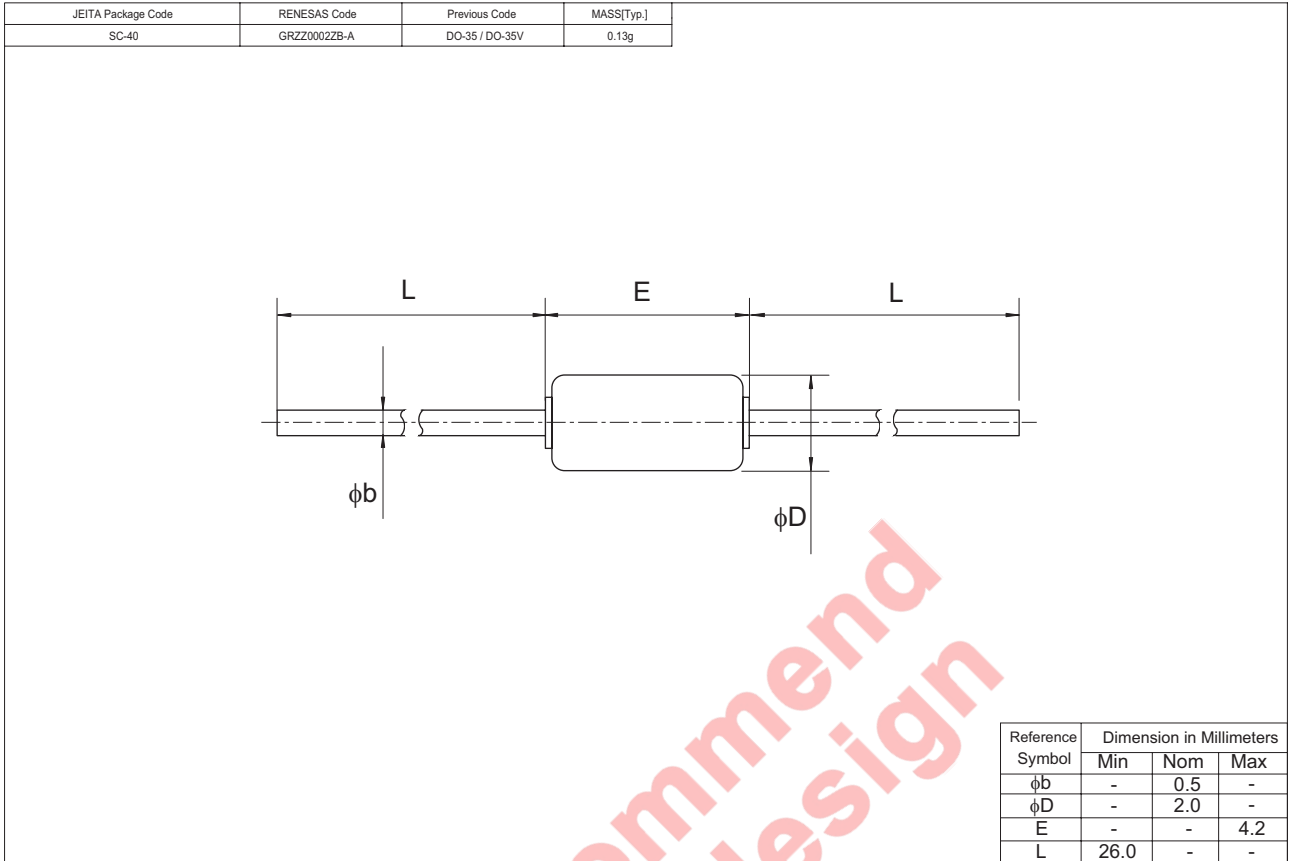


Fig.2 Power Dissipation vs. Ambient Temperature

Not recommended for new design

Package Dimensions



Not recommend for new design

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